

DP-308,450

HVAC SYSTEM WITH COOLED DEHYDRATOR**ABSTRACT OF THE DISCLOSURE**

5 An air conditioning system for a vehicle includes an accumulator/dehydrator (A/D) disposed in the suction fluid line for accumulating refrigerant and a heat transfer jacket surrounds the A/D for exchanging heat with the A/D and the refrigerant therein. The heat transfer jacket may define a space between an inner wall of the A/D and an outer wall spaced therefrom. with a heat transfer media disposed in
10 the space for cooling by extracting heat from the refrigerant in the A/D. Alternatively, the jacket is defined by a double walled sleeve surrounding the A/D and defining the space for the heat transfer media. Yet another alternative is for the heat transfer jacket to comprise a thermoelectric device.